

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/517,941A
Source: IFWP
Date Processed by STIC: 08/02/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/02/2006

PATENT APPLICATION: US/10/517,941A

TIME: 09:03:58

Input Set : A:\0077 (OX40) Nov 11, 2005 version.ST25.txt
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3 <110> APPLICANT: Crucell Holland B.V.
 4 Bakker, Alexander B.H.
 5 Meester-Rood, Pauline M.L.
 6 Bakker, Adrianus Q.
 8 <120> TITLE OF INVENTION: AGONISTIC BINDING MOLECULES TO THE HUMAN OX40 RECEPTOR
 10 <130> FILE REFERENCE: 0077 WO 00 ORD
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/517,941A
 C--> 12 <141> CURRENT FILING DATE: 2004-12-13
 12 <150> PRIOR APPLICATION NUMBER: PCT/NL02/00389
 13 <151> PRIOR FILING DATE: 2002-06-13
 15 <160> NUMBER OF SEQ ID NOS: 54
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 769
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial sequence
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 30 <223> OTHER INFORMATION: Source of genetic material is Homo sapiens
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 38 cct gga ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt 95
 39 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 40 20 25 30
 42 agc aac tac acg atg aac tgg gtc cgc cag gcg ccc ggg aag ggg ctg 143
 43 Ser Asn Tyr Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 44 35 40 45
 46 gag tgg gtc tca gct att agt ggt agt ggt agc aca tac tac gca 191
 47 Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala
 48 50 55 60
 50 gac tcc gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac 239
 51 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 52 65 70 75
 54 acg ctg tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gtg 287
 55 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 56 80 85 90 95
 58 tat tac tgt gcc aaa gac cgc tac tcc cag gtg cac tac gcg ttg gat 335
 59 Tyr Tyr Cys Ala Lys Asp Arg Tyr Ser Gln Val His Tyr Ala Leu Asp

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| 60 | 100 | 105 | 110 | |
| 62 | tac tgg ggc cag ggc acc ctg gtg acc gtg ctc gag ggt acc gga ggt | | | 383 |
| 63 | Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Leu Glu Gly Thr Gly Gly | | | |
| 64 | 115 | 120 | 125 | |
| 66 | tcc ggc gga acc ggg tct ggg act ggt acg agc gag ctc gac atc cag | | | 431 |
| 67 | Ser Gly Gly Thr Gly Ser Gly Thr Gly Thr Ser Glu Leu Asp Ile Gln | | | |
| 68 | 130 | 135 | 140 | |
| 70 | atg acg cag tct cca gac tca ctg ccc gtc acc cct gga gag ccg gcc | | | 479 |
| 71 | Met Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro Gly Glu Pro Ala | | | |
| 72 | 145 | 150 | 155 | |
| 74 | tcc atc tcc tgc agg tct agt cag agc ctc ctg cat agt aat gga tac | | | 527 |
| 75 | Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr | | | |
| 76 | 160 | 165 | 170 | 175 |
| 78 | aac tat ttg gat tgg tac ctg cag aag gca ggg cag tct cca cag ctc | | | 575 |
| 79 | Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Ala Gly Gln Ser Pro Gln Leu | | | |
| 80 | 180 | 185 | 190 | |
| 82 | ctg atc tat ttg ggt tct aat cgg gcc tcc qgg gtc cct gac agg ttc | | | 623 |
| 83 | Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe | | | |
| 84 | 195 | 200 | 205 | |
| 86 | agt ggc agt gga tca ggc aca gat ttt aca ctg aaa atc agc aga gtg | | | 671 |
| 87 | Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val | | | |
| 88 | 210 | 215 | 220 | |
| 90 | gag gct gag gat gtt ggg gtt tat tac tgc cag cag tac tac aac cac | | | 719 |
| 91 | Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn His | | | |
| 92 | 225 | 230 | 235 | |
| 94 | ccg acg acc ttc ggc cag ggc acc aaa ctg gaa atc aaa cgc gcg gcc | | | 767 |
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| 107 | <223> OTHER INFORMATION: scFv SC02008 | | | |
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| 116 | 20 | 25 | 30 | |
| 119 | Asn Tyr Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu | | | |
| 120 | 35 | 40 | 45 | |
| 123 | Trp Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp | | | |
| 124 | 50 | 55 | 60 | |
| 127 | Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr | | | |
| 128 | 65 | 70 | 75 | 80 |
| 131 | Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr | | | |
| 132 | 85 | 90 | 95 | |
| 135 | Tyr Cys Ala Lys Asp Arg Tyr Ser Gln Val His Tyr Ala Leu Asp Tyr | | | |

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|-----|---|-----|-----|
| 136 | 100 | 105 | 110 |
| 139 | Trp Gly Gln Gly Thr Leu Val Thr Val Leu Glu Gly Thr Gly Gly Ser | | |
| 140 | 115 | 120 | 125 |
| 143 | Gly Gly Thr Gly Ser Gly Thr Gly Thr Ser Glu Leu Asp Ile Gln Met | | |
| 144 | 130 | 135 | 140 |
| 147 | Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser | | |
| 148 | 145 | 150 | 155 |
| 151 | Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn | | |
| 152 | 165 | 170 | 175 |
| 155 | Tyr Leu Asp Trp Tyr Leu Gln Lys Ala Gly Gln Ser Pro Gln Leu Leu | | |
| 156 | 180 | 185 | 190 |
| 159 | Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser | | |
| 160 | 195 | 200 | 205 |
| 163 | Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu | | |
| 164 | 210 | 215 | 220 |
| 167 | Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn His Pro | | |
| 168 | 225 | 230 | 235 |
| 171 | Thr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Ala Ala | | |
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| 185 | <222> LOCATION: (3)..(773) | | |
| 186 | <223> OTHER INFORMATION: Source of genetic material is Homo sapiens | | |
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| 192 | 1 5 10 15 | | |
| 194 | cct ggg ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttc | 95 | |
| 195 | Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe | | |
| 196 | 20 25 30 | | |
| 198 | agc ggc tac tct atg aac tgg gtc cgc cag gcg ccc ggg aag ggg ctg | 143 | |
| 199 | Ser Gly Tyr Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu | | |
| 200 | 35 40 45 | | |
| 202 | gag tgg gtt ggc cgt act aga aac aaa gct aac agt tac acc aca gaa | 191 | |
| 203 | Glu Trp Val Gly Arg Thr Arg Asn Lys Ala Asn Ser Tyr Thr Glu | | |
| 204 | 50 55 60 | | |
| 206 | tac gcc gcg tct gtg aaa ggc aga ttc acc atc tca aga gat gat tca | 239 | |
| 207 | Tyr Ala Ala Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser | | |
| 208 | 65 70 75 | | |
| 210 | aag aac tca ctg tat ctg caa atg aac agt ctg aga gcc gag gac aca | 287 | |
| 211 | Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr | | |
| 212 | 80 85 90 95 | | |
| 214 | gcc gtg tat tac tgt gcc aaa gac cgc tac gtc aac acg tcg aac gcg | 335 | |

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| 215 | Ala | Val | Tyr | Tyr | Cys | Ala | Lys | Asp | Arg | Tyr | Val | Asn | Thr | Ser | Asn | Ala | |
| 216 | | 100 | | | | | | | | 105 | | | | | 110 | | |
| 218 | tcc | gat | tac | tgg | ggc | cag | ggc | acc | ctg | gtg | acc | gtg | ctc | gag | ggt | acc | 383 |
| 219 | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Leu | Glu | Gly | Thr | |
| 220 | | | | | | | | | 115 | | 120 | | | 125 | | | |
| 222 | gga | ggg | tcc | ggc | gga | acc | ggg | tct | ggg | act | ggt | acg | agc | gag | ctc | gac | 431 |
| 223 | Gly | Gly | Ser | Gly | Gly | Thr | Gly | Ser | Gly | Thr | Gly | Thr | Ser | Glu | Leu | Asp | |
| 224 | | | | | | | | | 130 | | 135 | | | 140 | | | |
| 226 | atc | cag | atg | aca | cag | tct | cca | gac | tca | ctg | ccc | gtc | acc | cct | gga | gag | 479 |
| 227 | Ile | Gln | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Pro | Val | Thr | Pro | Gly | Glu | |
| 228 | | | | | | | | | 145 | | 150 | | | 155 | | | |
| 230 | ccg | gcc | tcc | atc | tcc | tgc | aga | tct | agt | cag | agc | ctc | ctg | cat | agt | aat | 527 |
| 231 | Pro | Ala | Ser | Ile | Ser | Cys | Arg | Ser | Ser | Gln | Ser | Leu | Leu | His | Ser | Asn | |
| 232 | | | | | | | | | 160 | | 165 | | | 170 | | 175 | |
| 234 | gga | tac | aac | tat | ttg | gat | tgg | tac | ctg | cag | aag | cca | ggg | cag | tct | cca | 575 |
| 235 | Gly | Tyr | Asn | Tyr | Leu | Asp | Trp | Tyr | Leu | Gln | Lys | Pro | Gly | Gln | Ser | Pro | |
| 236 | | | | | | | | | 180 | | 185 | | | 190 | | | |
| 238 | cag | ctc | ctg | atc | tat | ttg | ggt | tct | aat | cgg | gcc | tcc | ggg | gtc | cct | gac | 623 |
| 239 | Gln | Leu | Leu | Ile | Tyr | Leu | Gly | Ser | Asn | Arg | Ala | Ser | Gly | Val | Pro | Asp | |
| 240 | | | | | | | | | 195 | | 200 | | | 205 | | | |
| 242 | agg | ttc | agt | ggc | agt | gga | tca | ggc | aca | gat | ttt | aca | ctg | aaa | atc | agc | 671 |
| 243 | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Lys | Ile | Ser | |
| 244 | | | | | | | | | 210 | | 215 | | | 220 | | | |
| 246 | aga | gtg | gag | gct | cac | cat | gtt | ggg | gtt | tat | tac | tgc | cag | cag | tac | ccg | 719 |
| 247 | Arg | Val | Glu | Ala | His | His | Val | Gly | Val | Tyr | Tyr | Cys | Gln | Gln | Tyr | Pro | |
| 248 | | | | | | | | | 225 | | 230 | | | 235 | | | |
| 250 | ctg | ggc | ccg | ccc | acc | tcc | ggc | cag | ggc | acc | aaa | ctg | gaa | atc | aaa | cgc | 767 |
| 251 | Leu | Gly | Pro | Pro | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | |
| 252 | | | | | | | | | 240 | | 245 | | | 250 | | 255 | |
| 254 | gcg | gcc | gc | | | | | | | | | | | | | 775 | |
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| 270 | 1 | | | | 5 | | | | | 10 | | | | 15 | | | |
| 273 | Gly | Gly | Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe | Ser | |
| 274 | | | | | | 20 | | | | 25 | | | 30 | | | | |
| 277 | Gly | Tyr | Ser | Met | Asn | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | |
| 278 | | | | | | | 35 | | | 40 | | | 45 | | | | |
| 281 | Trp | Val | Gly | Arg | Thr | Arg | Asn | Lys | Ala | Asn | Ser | Tyr | Thr | Glu | Tyr | | |
| 282 | | | | | | | 50 | | | 55 | | | 60 | | | | |
| 285 | Ala | Ala | Ser | Val | Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asp | Ser | Lys | |
| 286 | | | | | | | 65 | | | 70 | | | 75 | | | 80 | |
| 289 | Asn | Ser | Leu | Tyr | Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | |

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| 293 | Val | Tyr | Tyr | Cys | Ala | Lys | Asp | Arg | Tyr | Val | Asn | Thr | Ser | Asn | Ala | Phe |
| 294 | | | | 100 | | | | | 105 | | | | | | 110 | |
| 297 | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Leu | Glu | Gly | Thr | Gly |
| 298 | | | | 115 | | | | 120 | | | | 125 | | | | |
| 301 | Gly | Ser | Gly | Gly | Thr | Gly | Ser | Gly | Thr | Gly | Thr | Ser | Glu | Leu | Asp | Ile |
| 302 | | 130 | | 135 | | | | 135 | | | | 140 | | | | |
| 305 | Gln | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Pro | Val | Thr | Pro | Gly | Glu | Pro |
| 306 | 145 | | | 150 | | | | 150 | | | 155 | | | | 160 | |
| 309 | Ala | Ser | Ile | Ser | Cys | Arg | Ser | Ser | Gln | Ser | Leu | Leu | His | Ser | Asn | Gly |
| 310 | | | | 165 | | | | 165 | | | 170 | | | | 175 | |
| 313 | Tyr | Asn | Tyr | Leu | Asp | Trp | Tyr | Leu | Gln | Lys | Pro | Gly | Gln | Ser | Pro | Gln |
| 314 | | | | 180 | | | | 180 | | | 185 | | | | 190 | |
| 317 | Leu | Leu | Ile | Tyr | Leu | Gly | Ser | Asn | Arg | Ala | Ser | Gly | Val | Pro | Asp | Arg |
| 318 | | | | 195 | | | | 195 | | | 200 | | | | 205 | |
| 321 | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Lys | Ile | Ser | Arg |
| 322 | | | | 210 | | | | 210 | | | 215 | | | | 220 | |
| 325 | Val | Glu | Ala | His | His | Val | Gly | Val | Tyr | Tyr | Cys | Gln | Gln | Tyr | Pro | Leu |
| 326 | 225 | | | | 230 | | | 230 | | | 235 | | | | 240 | |
| 329 | Gly | Pro | Pro | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Ala |
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| 353 | | | | | | | | | | | | | | | | 47 |
| 354 | 1 | | | | | 5 | | | | 10 | | | | 15 | | |
| 356 | cct | ggg | ggg | tcc | ctg | aga | ctc | tcc | tgt | gca | gcc | tct | gga | ttc | acc | ttc |
| 357 | Pro | Gly | Gly | Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe |
| 358 | | | | | | 20 | | | | 25 | | | | 30 | | |
| 360 | agc | ggc | tac | cct | atg | aac | tgg | gtc | cgc | cag | gcg | ccc | ggg | aag | ggg | ctg |
| 361 | Ser | Gly | Tyr | Pro | Met | Asn | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu |
| 362 | | | | | | 35 | | | 40 | | | 45 | | | | |
| 364 | gag | tgg | gtg | gca | gtt | ata | tca | tat | gat | gga | agt | aat | aaa | tac | tac | gca |
| 365 | Glu | Trp | Val | Ala | Val | Ile | Ser | Tyr | Asp | Gly | Ser | Asn | Lys | Tyr | Tyr | Ala |
| 366 | | | | | | 50 | | | 55 | | | 60 | | | | |
| 368 | gac | tcc | gtg | aag | ggc | cga | tcc | acc | atc | tcc | aga | gac | aat | tcc | aag | aac |
| 369 | Asp | Ser | Val | Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn |
| 370 | | | | | | 65 | | | 70 | | | 75 | | | | |
| 372 | acg | ctg | tat | ctg | caa | atg | aac | agc | ctg | aga | gct | gag | gac | aca | gcc | gtg |
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VERIFICATION SUMMARY

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Input Set : A:\0077 (0X40) Nov 11, 2005 version.ST25.txt
Output Set: N:\CRF4\08022006\J517941A.raw

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date